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Standard Plans for Highway Bridges. *These plans are a useful guide to State, county, and local highway departments in the development of suitable and economical bridge designs for use with primary, secondary, and urban highways. Volumes not listed are out of print.*

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Wood Bridges: Decay Inspection and Control. *This publication provides basic information of interest to engineers relating to the cause of decay, to conditions conducive to its initiation and spread, and to means of preventing its occurrence on wooden bridges. This handbook describes procedures for inspecting wood bridges for the presence of decay including steps in preparing for inspection, visual signs of decay, and methods of detecting internal and external decay.* 1979. 32 p. il.
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CAREER AND EDUCATIONAL OPPORTUNITIES

Engineering and Related Occupations. *Reprinted from the 1980-81 edition of the Occupational Outlook Handbook. This publication gives the employment outlook for aerospace, biomedical, ceramic, chemical, civil, electrical, industrial, mechanical, metallurgical, mining, and petroleum engineers, broadcast technicians, drafters, engineering and science technicians, surveyors and surveying technicians.* 1980. 19 p. il.
S/N 029-001-02345-6 $ 1.25

Factory Production Occupations. *This booklet, reprinted from the Occupational Outlook Handbook, discusses employment prospects for stationary engineers, as well as for numerous other occupations in factory production.* 1980. 19 p. il.
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Labor Market Experience of Engineers During Periods of Changing Demand. *This book examines the labor market experience of engineers from recruitment to layoff, job search, and reemployment. Training and skills obsolescence are also discussed, as well as national manpower programs to aid in finding reemployment.* 1974. 60 p.
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Design Manuals. *The design manual series presents criteria that shall be used in the design of facilities under the cognizance of the Naval Facilities Engineering Command. Basic criteria are presented in these publications for structural engineering design, and specific design criteria are included for the structural requirements common to structures in various facility classes of the category codes. The direction and standards for procedures, methods, dimensions, materials, loads, and stresses are included. Design manuals are not textbooks, but are for the use of experienced architects and engineers. All volumes are looseleaf for updating.*

Design Manual, Cumulative Index, 1973. *Presents a composite, consolidated subject index of criteria and data in all Design Manuals, designated as the NAVFAC DM Series.* 1973. 285 p.
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Administrative Facilities. 1975. 29 p.
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Communications, Navigational Aids, and Airfield Lighting. 1971. 122 p. il. D 209.14/2:23/3 S/N 008-050-00082-1 2.80

Drawings and Specifications. *This manual contains policy information and instructions for the preparation of drawings, specifications, and cost estimates for construction of Naval shore establishments.* 1978. 83 p. il. D 209.14/2:6/4 S/N 008-050-00166-6 2.75

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Engineering Weather Data. *This manual gives uniform weather data for winter heating design, heating degree days, summer air conditioning design, criteria for calculating energy consumption estimates, and cooling degree days. The publication consists of tables and statistics.* 1978. 601 p. Issued with perforations.
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NBSLD, The Computer Program for Heating and Cooling Loads in Buildings. 1976. 388 p. il.
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Design Guidelines for Creating Defensible Space. *Published by the Law Enforcement Assistance Administration, this book examines building designs, with emphasis on security.* 1976. 213.p. il.
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Guide for Space Planning and Layout, Agency Efficiency, Space Economy. *Discusses design of public buildings.* 1969. 38 p., 18 plates.
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Human Engineering Guide to Equipment Design. *This guide presents and discusses the human factors which affect equipment design. It contains a comprehensive compilation of relevant human performance data and human engineering guidelines for the design of equipment, work spaces, and man-machine systems. Also covered are such subjects as visual and auditory displays, information processing, controls, speech communications, man-machine dynamics, anthropometry, training, maintainability, test and evaluation, and equipment design considerations which affect user compatibility.* Rev. 1972, reprinted 1978. 752 p. il.
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Observations on the Behavior of Buildings in the Romania Earthquake of March 4, 1977. 1977. 159 p. il.
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Soil as an Engineering Material. *This publication describes and illustrates the forming processes of soil, properties of soils, their construction control, and soil sampling and testing.* 1974. 45 p. il. I 27.54:17 S/N 024-003-00091-4 1.30

Soil Classification for Construction Practice in Shallow Trenching. *Discusses soil properties that could cause cave-in accidents in construction excavations and presents ways to study soil to help prevent accidents.* 1980. 76 p. il.
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Cleveland: An Inventory of Historic Engineering and Industrial Sites. *Each site description includes a historical summary and an encapsulation of major design features.* 1978. 118 p. il.
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Historic American Engineering Record Catalog, 1976. *The Historic American Engineering Record (HAER) is a collection of original measured drawings, historical reports, photographs, technical analyses, and other documentation of important historic structures. The documentation is deposited permanently in the Library of Congress for use by the public. This catalog lists HAER documentation produced between January 1, 1969, and December 31, 1975.* 1977. 193 p. il.
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Rhode Island: An Inventory of Historic Engineering and Industrial Sites. *Sponsored by the Slater Mill Historic Site, Pawtucket, Rhode Island; and the Rhode Island Historical Preservation Commission, Providence, Rhode Island.* 1978. 296 p. il.
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Southeast Asia: Building the Bases, The History of Construction in Southeast Asia. *An often exciting history of how American military bases were constructed in Southeast Asia during the Vietnam War. The book includes several interesting interviews with the construction workers involved, as well as with some cabinet-level and military personnel. Although not written for people with a construction background, it is recommended to anyone who was involved in this construction or who is interested in innovative construction engineering.* 1975. 466 p. il.
D 209.2:As 4 S/N 008-047-00171-1 4.10

Upper Peninsula of Michigan: An Inventory of Historic Engineering and Industrial Sites. 1979. 235 p. il.
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Air-Water Flow in Hydraulic Structures. 1980. 156 p. il.
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Design Charts for Open Channel Flow. *This publication contains hydraulic charts which facilitate the computation of uniform flow in open channels.* 1961, reprinted 1977. 105 p. il.
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Design of Encroachments on Flood Plains Using Risk Analysis. *Prepared by the Federal Highway Administration, Office of Engineering, Bridge Division, Hydraulics Branch, in cooperation with the Office of Research.* 1980. 138 p. il.
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Ground Water Manual. *A guide for the investigation, development, and management of ground water resources. Describes well design, specifications, drilling and sterilization; well and aquifer relationships; ground water occurrence and flow; ground water investigations; aquifer test analysis; estimation of aquifer yield; data collection; geophysical investigations; permeability tests; dewatering systems; and pumps.* 1977. 480 p. il., plate in pocket.
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Hydraulic Design of Stilling Basins and Energy Dissipators. Rev. 1978, published 1980. 236 p. il., 2 plates.
I 27.34:25/3 S/N 024-003-00087-6 7.50

Hydraulic Engineering Circulars. *Issued in looseleaf form. Circulars not listed are out of print.*

Number 5, Hydraulic Charts for Selection of Highway Culverts. 1965, reprinted 1977. 54 p. il.
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Hydraulic Research in the United States and Canada. *Current and recently concluded research projects in hydraulics and hydrodynamics are summarized for a two-year period, in each of these reports.*

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C 13.10:583 S/N 003-003-02247-1 8.50

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Corrosion and Protection of Steel Piles in a Natural Seawater Environment. *This booklet describes the first eight years of a long-term program in which 23 coating systems and 5 cathodic protection systems were evaluated on their ability to protect steel piles in offshore conditions.* 1977. 37 p. il.
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Present and Recommended United States Government Research in Seafloor Engineering. 1978. 93 p. il.
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Underwater Inspection/Testing/Monitoring of Offshore Structures. *Identifies and describes all actual or potential underwater inspection requirements for offshore oil platforms, assesses the state-of-the-art in underwater nondestructive testing, and recommends priorities for technology development to satisfy testing requirements.* 1978. 139 p.
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METRIC

Metric Manual. *This publication establishes style and usage guidelines to be followed by Bureau of Reclamation personnel in their transition to the Metric System. This report also presents the basics of SI (International System of Units), preferred SI and allowable non-SI units, metric conversion techniques, and examples of engineering problems associated with metric conversion.* 1979. 278 p. il.
I 27.19/2:M 56 S/N 024-003-00129-5 5.00

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Metrication and Dimensional Coordination--A Selected Bibliography. *This list aids the construction industry in incorporating dimensional standardization and consolidation in the metric changeover.* 1977. 24 p. C 13.10:458 S/N 003-003-01684-5 $ 1.30

Selection of Preferred Metric Values for Design and Construction. 1978. 76 p. il.
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How to Obtain Consideration for Architect-Engineer Contracts With the Department of Defense. 1976. 29 p. il.
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Navy Civil Engineer. (Quarterly.) *Features articles on the Navy's worldwide shore establishments, including technical articles on planning and designing, utilities, transportation, Navy housing and real estate, and the Naval Civil Engineering Laboratory. Covers research and development, disaster control, and features articles on Civil Engineer Corps officers and the Seabees.* Subscription price: Domestic - $5.00 a year; Foreign - $6.25 a year. Single copy price: Domestic - $1.25 a copy; Foreign - $1.60 a copy. [NCE] (File Code 2Q)
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Planning and Design of Outdoor: Sports Facilities. *This manual, prepared in cooperation with the Navy and the Air Force, provides planning and design criteria, with definitive drawings, for sports courts and fields, track and field facilities, and recreational shooting ranges.* 1975. 166 p. il.
D 101.11:5-803-10 S/N 008-020-00588-6 $ 2.35

Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations. *An Army publication discussing specialized engineering and construction in wartime situations.* 1973. 792 p. il., 9 plates. Issued with perforations.
D 101.11:5-330/2/rep. S/N 008-020-00482-1 10.35

Planning in the Noise Environment. *This publication is for use by installation planners as a procedural tool designed to aid in the development of acceptable noise environments for facilities on military installations.* 1978. 267 p. Issued with perforations.
D 301.7:19-10 S/N 008-070-00418-6 3.75

MANAGEMENT

Architect-Engineer. *These standard forms are required for certain kinds of work performed for the General Services Administration.*

Fixed Price Contract, Standard Form 252. 1970. 2 p. Sold in packages of 100 only.
GS 1.Form 252/970 S/N 022-000-00061-6 2.75 per 100

General Provisions. (Architect-Engineer Contract), Standard Form 253. Rev. 1975. 3 p. Sold in packages of 100 only.
GS 1.Form 253/975 S/N 022-000-00062-4 7.50 per 100

Related Services Questionnaire for Specific Project, Standard Form 255. 1975. 11 p. 20 sets per pad; sold in pads only.
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Related Services Questionnaire, Standard Form 254. 1975. 8 p.
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Engineering Support and Management Services: Instructor's Guide. *The Student's Manual is no longer available.* 1975. 259 p. Issued with perforations.
HE 19.108/2:En 3/instructor S/N 017-080-01451-3 5.40

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Engineers' Overseas Handbook. *This handbook is designed to assist United States engineers and their firms in marketing their services overseas by providing information on particular conditions in 122 countries of the free world. Information is accurate as of July 1976. Topics covered include legal requirements for licensing, local representation, local participation in projects, contracting procedures, convertibility of currency, repatriation of fees, taxation of firms and individuals, and social costs that must be borne by the employer.* 1977, reprinted 1978. 264 p.
C 57.508:En 3 S/N 003-008-00178-5 $ 3.50

Index of United States Voluntary Engineering Standards, Covering Those Standards, Specifications, Test Methods, and Recommended Practices Issued by National Standardization Organizations in the United States. *The index itself is out of print.*

Supplement 1 to the above. 1972. 440 p. Clothbound.
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Supplement 2 to the above. 1975. 466 p. Clothbound.
C 13.10:329/supp.2 S/N 003-003-01362-5 9.35

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Adherence of Porcelain Enamel to Aluminum. 1974. 38 p. il.
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Design Guide for Rural Substations. *Publication provides engineering personnel with information covering all aspects of transmission and distribution substations through 230 KV, including structural, electrical, and mechanical aspects of substation construction and sections of layout, major equipment and maintenance.* 1978. 739 p. il. Issued with perforations.
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Engineering Implications of Chronic Materials Scarcity. *Documents the papers delivered, task force deliberations and findings, and plenary discussions of the Conference on National Materials Policy at Henniker, New Hampshire on August 8-13, 1976, which examined the interrelationship of engineering and national materials policy.* 1977. 320 p. il.
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Engineering Manuals. *Published by the Department of Agriculture's Forest Service.*

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Public Roads, A Journal of Highway Research and Development. (Quarterly.) *Contains many articles relating to highway research, engineering, safety on the highways, surfacing, and other subjects in this field.* Subscription price: Domestic - $7.50 a year; Foreign - $9.40 a year. Single copy price: Domestic - $2.25 a copy; Foreign - $2.85 a copy. [PR] (File Code 2Q)
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Design Methods for Reducing the Risk of Progressive Collapse in Buildings. *A progressive collapse is a chain reaction of failures following damage to a relatively small portion of a building. The damage which results is characteristically out of proportion to the damage which initiated the collapse. This publication discusses the background, concepts, possible causes, and design strategies for reducing progressive collapse.* 1977. 61 p. il. Includes 1 page errata sheet.
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Interrelations Between Cement and Concrete Properties. *Parts not shown are out of print.*

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Reliability Basis of Load and Resistance Factors for Reinforced Concrete Design. *Analyzes methods of estimating uncertainties in resistance and loads, evaluates safety indices associated with existing reinforced concrete designs, and presents design criteria which are commensurate with levels of uncertainty and required reliability.* 1978. 95 p. il.
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System Safety Engineering. *Provides an explanation of one of the approaches that can be used in the systematic prevention of mine accidents.* 1978. 46 p. il.
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Wood Handbook, Wood as an Engineering Material. *Contains information on the physical and mechanical properties of wood, and how these properties are affected by variation in the wood itself. Also includes chapters on wood-based products and on the principles behind the drying, fastening, finishing, and preserving of wood.* Rev. 1974. 433 p. il.
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